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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,926	06/14/2005	Sadamu Ishidu	20239/0202616-US0	8405
7278 DARBY & DA	7590 01/03/2007 RBY P C		EXAMINER	
P. O. BOX 525	7		CRANE, SARA W	
NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER
			2811	•
SHORTENED STATUTOR	Y PERIOD OF RESPONSE ,	MAIL DATE	DELIVERY MODE	
31 DAYS		01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/539,926	ISHIDU ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Sara W. Crane	2811				
The MAILING DATE of this communication ap	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 (</u>	<u> October 2006</u> .					
2a) This action is FINAL . 2b) Thi	This action is FINAL . 2b) This action is non-final.					
in the state of th						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1 and 4-25 is/are pending in the app 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1 and 4-25 are subject to restriction	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to by drawing(s) be held in abeyance ction is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list.	nts have been received. Its have been received in Apportity documents have been received in Apportity documents have been received.	lication No ceived in this National Stage				
Attachment(s)	_	•				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 25 Sept 2006 	Paper No(s)/N	mary (PTO-413) lail Date mal Patent Application				

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DETAILED ACTION

Applicant argues with respect to the requirement for election of species, in the Office action of 14 September 2006, that the requirement for election was improper because the requirement for election was not made in the first Office action of April 6, 2006. Applicant quotes 37 CFR 1.146, which states that the requirement for election would be made in the first action on an application containing both a generic claim and claims to more than one patentably distinct species embraced thereby. The Office action of April 6, 2006 was made on an application that contained generic claim 1, but did not contain species claims 8-18, 19-22, and 23-25. These species claims were not added until the paper of 1 June 2006. So the requirement for election of species would appear to be in compliance with 37 CFR 1.146.

Nevertheless, the requirement for election of species of 14 September 2006 is withdrawn, and a new requirement for election is set forth below, based on a combination-subcombination analysis, so that issues involving a generic claim would not arise.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1, 4-7, and 19-22 drawn to a semiconductor device mounted on a substrate, with the semiconductor device having specific dimensions, classified in class 257, subclass 618. [#]Art Unit: 2811

- Claims 8-18, drawn to a device mounted on a substrate having a cavity, classified in class 257, subclass 730.
- III. Claims 23-25, drawn to a semiconductor device mounted on a substrate, where the substrate has specific dimensions, classified in class 257, subclass 678.

The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination of Group I requires the element to be mounted on the upper surface of the substrate, and the combination of Group II does not require this. The subcombination has separate utility such as in a semiconductor device that does not include a cavity as in the combination.

Inventions III and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination of Group I

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requires the ratio H/L to be less than 1.25, and the combination of Group III does not require this. The subcombination has separate utility such as in a semiconductor device which has the ratio H/Y les than 0.4.

Inventions III and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination of Group II requires the ratio H/L to be less than 1.25, and the combination of Group III does not require this. The subcombination has separate utility such as in a semiconductor device which has the ratio H/Y less than 0.4.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

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Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Primary Examiner
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